

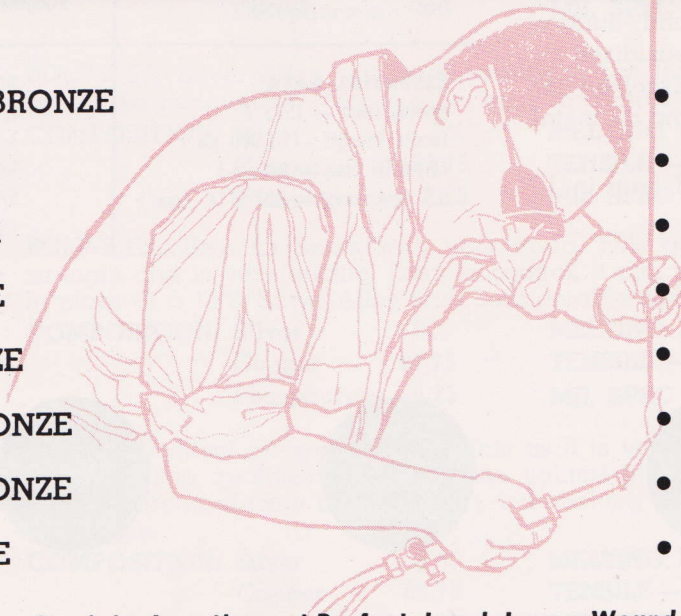
YOUR ONLY SINGLE SOURCE FOR YOUR EVERY BRAZING REQUIREMENT.

## AMERICAN BRAZING ALLOYS CORP.

P. O. BOX 11 • PELHAM, NEW YORK • Tel: MOUNT Vernon 4-5858-

# Low Temperature Brazing Alloys

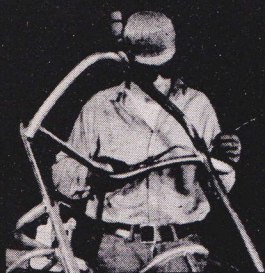
- LOW FUMING BRONZE
- NICKEL SILVER
- SILVER SOLDER
- NAVAL BRONZE
- SILICON BRONZE
- ALUMINUM BRONZE
- PHOSPHOR BRONZE
- NICKEL BRONZE



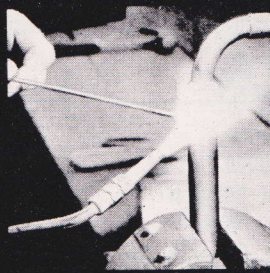
- PHOS-SIL 0
- PHOS-SIL 2
- PHOS-SIL 5
- PHOS-SIL 6
- PHOS-SIL 6 F
- PHOS-SIL 15
- ALUMINUM WELD WIRE
- FLUX

*Alloys Available in Straight Lengths and Perfect Level Layer Wound Spools, Chemically Cleaned*

**BRONZE BRAZING  
TUBULAR STEEL FURNITURE**



**SILVER SOLDERING  
REFRIGERATION ASSEMBLIES**



**PHOSPHOR COPPER BRAZING  
OF AIR CONDITIONING COILS**



**WELDING ALUMINUM PLATES**



- ONE SOURCE FOR ALL OF THE
- FINEST QUALITY CONTROLLED
- ALLOYS MADE IN U.S.A.

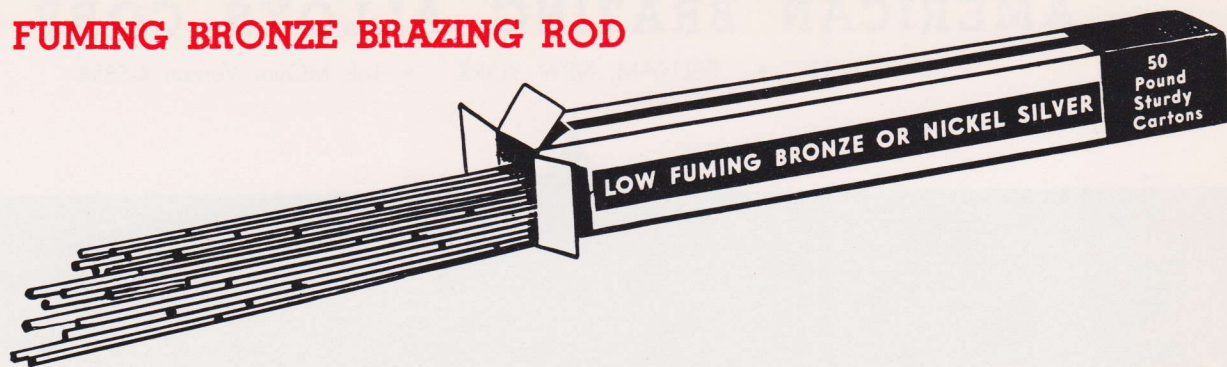
**DISTRIBUTED BY:**

**DALWELD COMPANY INC.**

13 BERTEL AVENUE (MO 4-8698)  
MOUNT VERNON, NEW YORK



## LOW FUMING BRONZE BRAZING ROD



Recommended for general purpose, all-around welding and brazing work. Its low melting point allows free flow and produces a tough yet ductile weld deposit of very high tensile strength. It has proven ideal for fusion welding and surface buildup, is degassified and deoxidized for low fuming characteristics. Excellent for bicycles, cabinets, furniture and all metal parts manufacturing.

Also available in flux coated form in 10 pound cartons.

### COMPARABLE ANALYSIS

Copper	58.00
Tin	00.90
Silicon	00.09
Manganese	00.03
Iron	00.60
Zinc	Balance

### COMPARISON CHART

NCG 3500
Anaconda 997
Oxweld 25M
Airco 27
Revere 456
Bridgeport 192

### ESSENTIAL DATA

Melting Point — 1575 F
Tensile Strength — 55,000 psi
AWS-ASTM Class — RBCuZn-3
U.S. Government — QQR-571a, Type 1.

### SIZES

1/16	3/16
3/32	1/4
1/8	3/8
5/32	

18"  
Lengths

36"  
Lengths

Level  
Layer  
Wound  
Spools

Coils

Preforms

## NICKEL SILVER

This alloy proves indispensable in the fabrication of bicycles, instrument parts, tubular steel furniture, light stainless steel assemblies, piping and building up broken teeth in gears, etc. It can be used in place of costly silver solders with attending higher strength when more heat is permissible.

Also available flux coated in five pound cartons.

### COMPARABLE ANALYSIS

Copper	48.58
Nickel	10.25
Silicon	00.15
Phosphorous	.025
Zinc	Balance

### COMPARISON CHART

Anaconda 828
Bridgeport 548
NCG 5200

### ESSENTIAL DATA

Melting Point — 1700 F
Tensile Strength — 67,000 psi
AWS-ASTM Class — RBCuZn-6
U.S. Government — QQR-571a, Type 1

### SIZES

1/16
3/32
1/8
3/16
1/4

## • OTHER ALLOYS

NAVAL BRONZE • NICKEL BRONZE • AMBRAZE COPPER • SILIC BRONZE  
ALUMINUM BRONZE • PHOSPHOR BRONZE • COPPER NICKEL 70/30



## PHOS SIL ALLOYS

Brazing with Phosphorous Copper or Phosphorous Copper Silver Alloys offer many advantages over other metal joining processes for almost every conceivable industry.

- Low Temperatures
- High Ductility
- High Corrosion Resistance
- High Electrical and Heat Conductivity
- Lesser Amounts of Filler Metals Needed
- No Flux Needed on Copper to Copper Joints

### Phos Sil 0

**BCuP-2** A thin flowing rod which offers good corrosion resistance and specifically designed for copper to copper joints. Economical.

**COMPOSITION:** Copper 92.8%      **MELTING POINT — 1305 F**  
Phosphorous 7.2      **TENSILE — 93,000 psi**  
   **MIL SPEC — QQB-650α**

### Phos Sil 2

**BCuP-** Comparable to Phos Sil 0 but offers more corrosion resistance, is more ductile and allows working at a lower temperature.

**COMPOSITION:** Silver 2%      **MELTING POINT — 1190 F**  
Copper 91      **TENSILE — 93,000 psi**  
Phosphorous 7      **MIL SPEC — Navy 47-C-3**

### Phos Sil 5

**BCuP-3** 5% Silver Alloy with wide melting range for use where close fits cannot be maintained. Very ductile, easy to control.

**COMPOSITION:** Silver 5%      **MELTING POINT — 1190 F**  
Copper 88.75      **TENSILE — 92,000 psi**  
Phosphorous 6.25      **MIL SPEC — QQB-650α**

### Phos Sil 6

**BCuP-3** Excellent for joints with poor fit-up. Fills gaps without effecting strength and is very ductile. Easy to control, it can sometimes be applied in place of a 15% Silver Alloy with considerable savings.

**COMPOSITION:** Silver 6%      **MELTING POINT — 1185 F**  
Copper 87.75      **TENSILE — 92,000 psi**  
Phosphorous 6.25      **MIL SPEC — QQB-650α**

### Phos Sil 6F

**BCuP-4** Excellent for very critical joints as it is very fluid and has exceptional wetting qualities. Penetrates the tightest fitting joints instantly and forms a strong, ductile bond. Its very low melting point makes it ideal for many jobs.

**COMPOSITION:** Silver 6 %      **MELTING POINT — 1190 F**  
Copper 86.75      **TENSILE — 90,000 psi**  
Phosphorous 7.25      **MIL SPEC — none**

### Phos Sil 15

**BCuP-5** For brazing non-ferrous metals only, this alloy is completely fluid at 1300 F. Its fluidity means a savings in time, labor and gas consumption. Penetration is rapid and effective. Joints are extremely ductile, strong and corrosion resistant.

**COMPOSITION:** Silver 15%      **MELTING POINT — 1185 F**  
Copper 80      **TENSILE — 86,000 psi**  
Phosphorous 5      **MIL SPEC — MIL-S-15395 — Grade III**

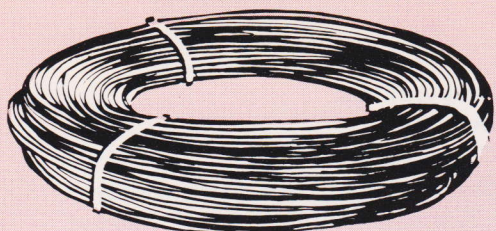
#### COMPARISON CHART

	1	2	3
Phos Sil 0	Phoson 0		Phos Copper
Phos Sil 2			Phos Silver 2
Phos Sil 5	Phoson 5	Silfos 5	Phos Silver 5
Phos Sil 6	Phoson 6	Silfos 5	Phos Silver 6M
Phos Sil 6F			Phos Silver
Phos Sil 15	Phoson 15	Silfos	Phos Silver 15

ALL AMBRAZE ALLOYS ARE FULLY GUARANTEED IN EVERY RESPECT AND WILL MEET ALL A.W.S., A.S.T.M. AND GOVERNMENT SPECIFICATIONS.



## SILVER SOLDER



Ambraze Silver Solder is available in  
50 ounce coils  
100 ounce coils  
bulk coils  
Straight lengths to order  
Special Shapes to order  
Rings and Preforms to order  
Flux coated Silver Solder

### SILVER SOLDER COMPARISON CHART

AMBRAZE 50 — Easy Flo — Sil Bond 50 — GB 50 — APW 50  
AMBRAZE 45 — Easy Flo 45 — Sil Bond 45 — GB 45 — APW 45  
AMBRAZE 35 — Easy Flo 35 — Sil Bond 35 — GB 35 — APW 35



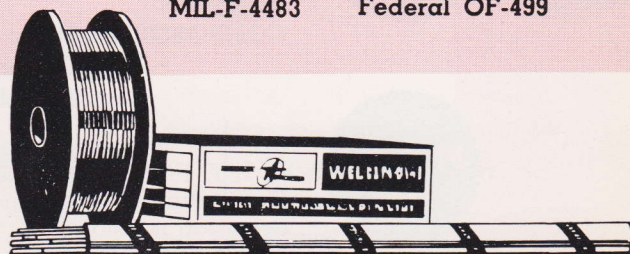
## AMBRAZE FLUX

### AVAILABLE IN ALL SIZES

1/2 lb jars — 1 lb. jars — 5 lb. jars — and tubs

Developed specifically for low temperature silver alloy brazing, Ambraze flux is a thin active fluid at 1100 F and dissolves oxides thoroughly. It starts to clean and protect metal surfaces at 760 F but remains active and stable to 1600 F. Easily cleaned by hot water, this flux is excellent for all Ferrous and Non-Ferrous Materials. It meets all of the following specifications:

USN — 51F4A Army — 4-1121 AMS — 3410-D  
MIL-F-4483 Federal OF-499



... AND NOW

## ALUMINUM WELDING WIRE

Our new Aluminum Welding Wire is available in Bright Finish in a broad range of alloys. High quality is maintained by laboratory weld testing and radiographic examinations. Our new bright finish minimizes surface oxides and other impurities. This wire produces stronger and higher quality welds.

### AVAILABLE

4043	5052	718	5183
1100	5154	6061	5254
5356	5652	6063	5556

36" lengths — one pound spools — ten pound spools — coils

ALL AMBRAZE ALLOYS ARE FULLY GUARANTEED IN EVERY RESPECT AND WILL MEET ALL A.W.S., A.S.T.M. AND GOVERNMENT SPECIFICATIONS.